

Comparison of MetAP2 Homologues (mouse = SEQ ID NO:13; Rat = SEQ ID NO:17;  
human = SEQ ID NO:12; yeast = SEQ ID NO:14)

1	15 16	30 31	45 46	60 61	75 76	90
mouse	MAGVEAASFGGHLN	GDLPDDREEGTST	AEBAKKRRKKKK	KGAVSAVOQLDKES	GAIVDEVAKQLESA	LEEKERDDDDGDG
rat	MAGVEAASFGGHLN	RDLPDDREEGTST	AEBAKKRRKKKK	KGAVSAVOQLDKES	GAIVDEVAKQLERA	LEEKERDDDDGDG
human	MAGVEEVAASGSHLN	GDLPDDREEGAAT	AEBAKKRRKKKK	KGSAAGAEQEPKES	GASVDEVAKQLERA	LEKRRERDDDDGDG
yeast	-----	-----	-----	-----	-----	VEQQQAKADESDPV
				-----	-----	MTDAEIN SPASDLKELNIENEG VEQQQAKADESDPV
91	105 106	120 121	135 136	150 151	165 166	180
mouse	DADGATGKKKKKKK	KRGPKVOTDPSPVPI	CDLYPNGVFPKGQEC	EYPTPDQGRTAAMRT	TSEKKALDQASEI	WDFREAAEAHRQVR
rat	DGDGAAGKKKKKKK	KRGPRVOTDPSPVPI	CDLYPNGVFPKGQEC	EYPTPDQGRTAAMRT	TSEKKALDQASEI	WDFREAAEAHRQVR
human	DGDGATGKKKKKKK	KRGPKVOTDPSPVPI	CDLYPNGVFPKGQEC	EYPTPDQGRTAAMRT	TSEKKALDQASEI	WDFREAAEAHRQVR
yeast	ESKKRKKKKKKKKK	N-----	-----	-----	-----	WDFREAAEAHRQVR
						WDFREAAEAHRQVR
181	195 196	210 211	225 226	240 241	255 256	270
mouse	KYVNSWIKPGMTMIE	ICEKLEDGSRKLKE	NGLNAG-----	LA FETGCSLNCAAAHT	PNAGDTTVLOYDDIC	KIDFGTHISGRIDC
rat	KYVNSWIKPGMTMIE	ICEKLEDGSRKLKE	NGLNAG-----	LA FETGCSLNCAAAHT	PNAGDTTVLOYDDIC	KIDFGTHISGRIDC
human	KYVNSWIKPGMTMIE	ICEKLEDGSRKLKE	NGLNAG-----	LA FETGCSLNCAAAHT	PNAGDTTVLOYDDIC	KIDFGTHISGRIDC
yeast	RAIKURIYVPGKIMD	IADMIENTTRYTGA	ENLLAMEDPKSQGIG	FPTGLSLNHCAAAHT	PNAGDKTVLYKEDVM	KYDVGVQVNGNIDS
271	285 286	300 301	315 316	330 331	345 346	360
mouse	AFTVTNFNPKYDILLT	AVKDATNTGICKAGI	DYRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRLNNGHSTGPYRI	HAGKTVPIVKGGEAT
rat	AFTVTNFNPKYDILLK	AVKDATNTGICKAGI	DYRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRLNNGHSTGPYRI	HAGKTVPIVKGGEAT
human	AFTVTNFNPKYDILLK	AVKDATNTGICKAGI	DYRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRLNNGHSTGPYRI	HAGKTVPIVKGGEAT
yeast	AFTVSEDFDQDNLIA	AVKDAIYTGICEAGI	DYRLTDIGEAIQEVW	ESYEVEINGETGYQVK	PCRNLCGHSTAPYRI	HAGKTVPIVKGGEAT
361	375 376	390 391	405 406	420 421	435 436	450
mouse	RMEEGEVVAIETGGS	TGKGVHDDMCESHY	MKNFDVGHVPILRL	TKHLNLVINENFGTL	AFCRWLDRIGESKY	LMALKNLCDGIQDP
rat	RMEEGEVVAIETGGS	TGKGVHDDMCESHY	MKNFDVGHVPILRL	TKHLNLVINENFGTL	AFCRWLDRIGESKY	LMALKNLCDGIQDP
human	RMEEGEVVAIETGGS	TGKGVHDDMCESHY	MKNFDVGHVPILRL	TKHLNLVINENFGTL	AFCRWLDRIGESKY	LMALKNLCDGIQDP
yeast	RMEEGEHFAIETGGS	TGGRVYTAGGVESHY	ARSAEDHQWNPITDS	AKNLLKTIDRNFSTL	PCFRYLDRIGESKY	LFALNNLVHAGLVQD
451	465 466	480				
mouse	YPPICDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--			
rat	YPPICDIKGSYTAQF	EHTILCAQVKKLSA	EEMTKT			
human	YPPICDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--			
yeast	YPPINDIGSYTAQF	EHTILLHAKKEVVS	RGDDY--			

Figure 1

MetAP2

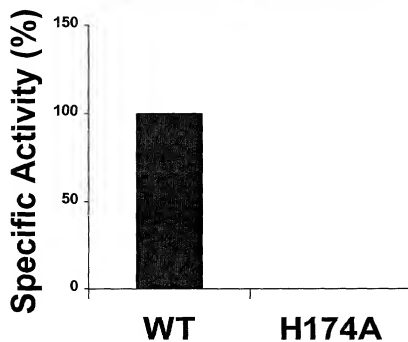
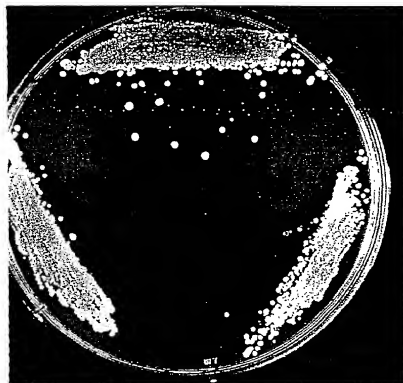
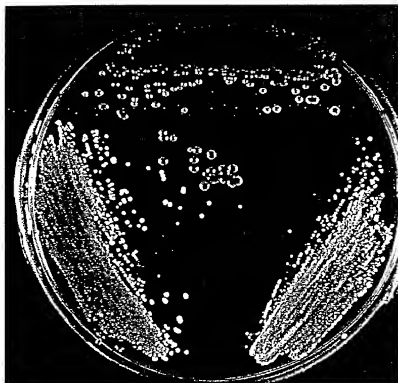


Figure 2



A. Glucose



B. Galactose

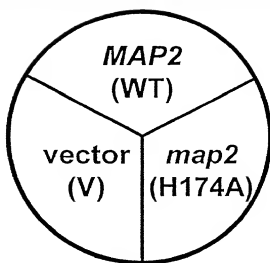


FIGURE 3

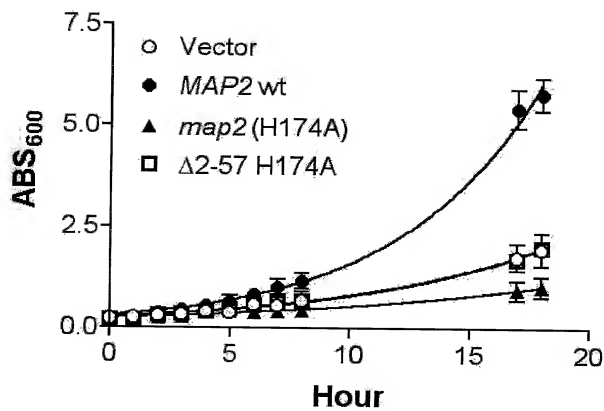
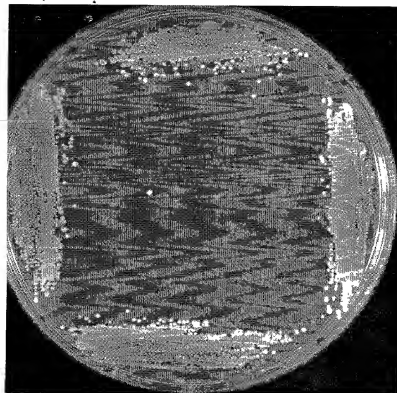
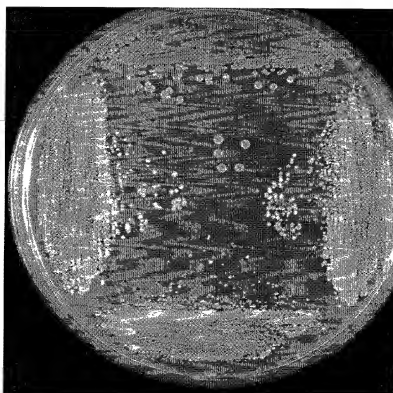


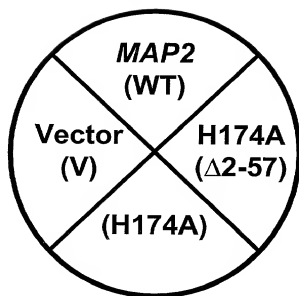
Figure 4



**A. Glucose**

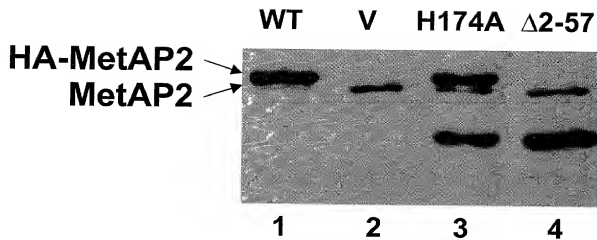


**B. Galactose**



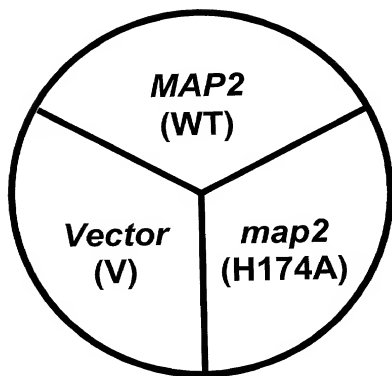
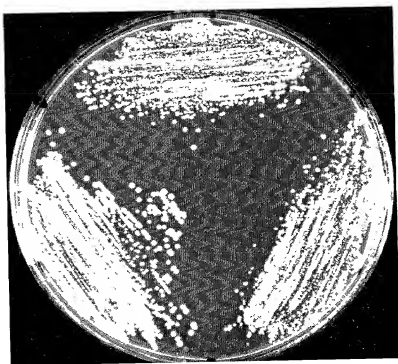
H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1Δ* growth under the *GAL1* promoter.

Figure 5



The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2  $\Delta 2-57$  H174A steady state levels in *map1* $\Delta$ .

Figure 6



Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of *map2Δ*

Figure 7

00943453-0000001

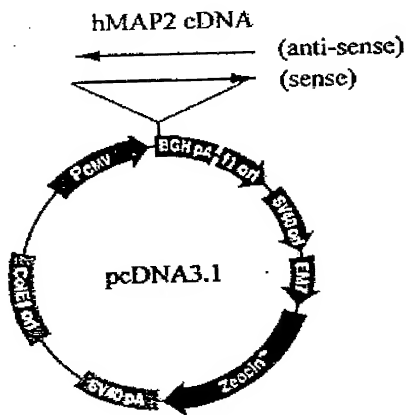


Figure 8



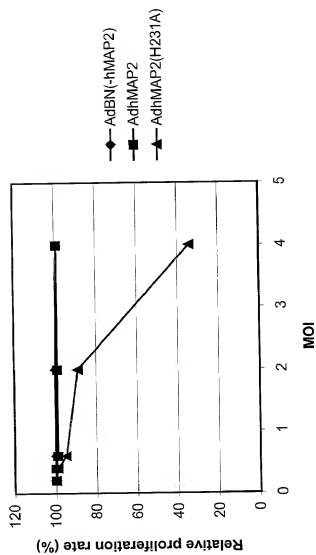


Figure 10

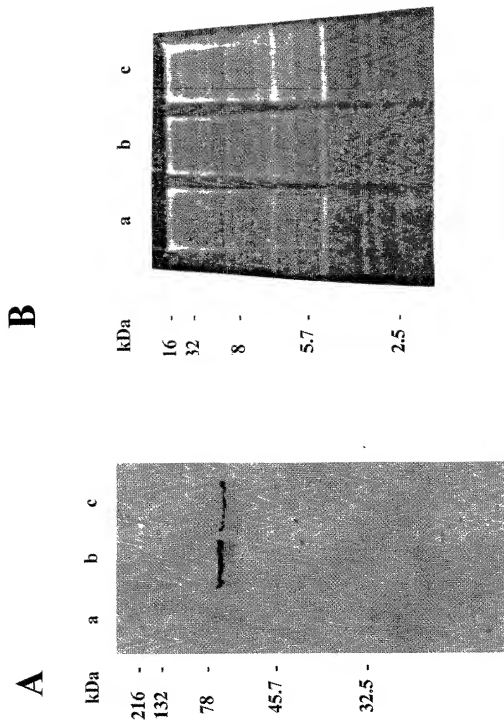


Figure 11